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LOGINID:SSSPTA1623PAZ

PASSWORD:
TERMINAL (ENTER 1, 2, 3, OR ?):2

* * * * * * * * * * Welcome to STN International * * * * * * * * * *

NEWS	1		Web Page URLs for STN Seminar Schedule - N. America
NEWS	2		"Ask CAS" for self-help around the clock
NEWS	3	JAN 27	Source of Registration (SR) information in REGISTRY updated and searchable
NEWS	4	JAN 27	A new search aid, the Company Name Thesaurus, available in CA/CAplus
NEWS	5	FEB 05	German (DE) application and patent publication number format changes
NEWS	6	MAR 03	MEDLINE and LMEDLINE reloaded
NEWS	7	MAR 03	MEDLINE file segment of TOXCENTER reloaded
NEWS	8	MAR 03	FRANCEPAT now available on STN
NEWS	9	MAR 29	Pharmaceutical Substances (PS) now available on STN
NEWS	10	MAR 29	WPIFV now available on STN
NEWS	11	MAR 29	No connect hour charges in WPIFV until May 1, 2004
NEWS	12	MAR 29	New monthly current-awareness alert (SDI) frequency in RAPRA
NEWS	13	APR 26	PROMT: New display field available
NEWS	14	APR 26	IFIPAT/IFIUDB/IFICDB: New super search and display field available
NEWS	15	APR 26	LITALERT now available on STN
NEWS	16	APR 27	NLDB: New search and display fields available

NEWS EXPRESS	MARCH 31 CURRENT WINDOWS VERSION IS V7.00A, CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP), AND CURRENT DISCOVER FILE IS DATED 26 APRIL 2004
NEWS HOURS	STN Operating Hours Plus Help Desk Availability
NEWS INTER	General Internet Information
NEWS LOGIN	Welcome Banner and News Items
NEWS PHONE	Direct Dial and Telecommunication Network Access to STN
NEWS WWW	CAS World Wide Web Site (general information)

Enter NEWS followed by the item number or name to see news on that specific topic.

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* * * * * * * * * * * * * * STN Columbus * * * * * * * * * * * * * * * *

FILE 'HOME' ENTERED AT 08:53:10 ON 05 MAY 2004

=> file reg

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.21	0.21

FILE 'REGISTRY' ENTERED AT 08:53:23 ON 05 MAY 2004
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
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Property values tagged with IC are from the ZIC/VINITI data file
provided by InfoChem.

STRUCTURE FILE UPDATES: 3 MAY 2004 HIGHEST RN 679390-57-9
DICTIONARY FILE UPDATES: 3 MAY 2004 HIGHEST RN 679390-57-9

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 6, 2004

Please note that search-term pricing does apply when
conducting SmartSELECT searches.

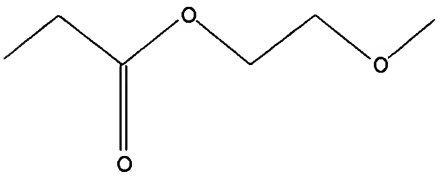
Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more
information enter HELP PROP at an arrow prompt in the file or refer
to the file summary sheet on the web at:
http://www.cas.org/ONLINE/DBSS/registryss.html

=>
Uploading C:\Examination Auxillary files\50337411\50337411 simplest cmpd.str

L1 STRUCTURE UPLOADED

=> d l1
L1 HAS NO ANSWERS
L1 STR



Structure attributes must be viewed using STN Express query preparation.

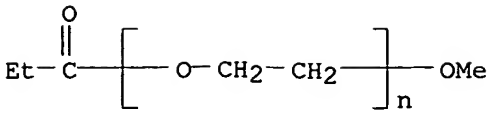
=> search l1 exact full
FULL SEARCH INITIATED 08:55:41 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 409 TO ITERATE

100.0% PROCESSED 409 ITERATIONS 3 ANSWERS
SEARCH TIME: 00.00.01

L2 3 SEA EXA FUL L1

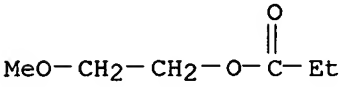
=> d scan

L2 3 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN Poly(oxy-1,2-ethanediyl), α-(1-oxopropyl)-ω-methoxy- (9CI)
MF (C2 H4 O)n C4 H8 O2
CI PMS



HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):3

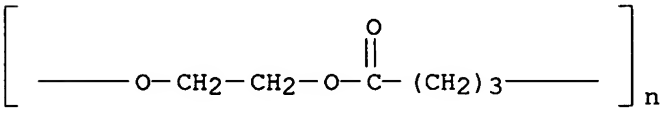
L2 3 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN Ethanol, 2-methoxy-, propanoate (9CI)
MF C6 H12 O3



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L2 3 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN Poly[oxy-1,2-ethanediyloxy(1-oxo-1,4-butanediyl)] (9CI)
MF (C6 H10 O3)n
CI PMS

RELATED POLYMERS AVAILABLE WITH POLYLINK



ALL ANSWERS HAVE BEEN SCANNED

=> file caplus\
'CAPLUS\' IS NOT A VALID FILE NAME
SESSION CONTINUES IN FILE 'REGISTRY'
Enter "HELP FILE NAMES" at an arrow prompt (=>) for a list of files that are available. If you have requested multiple files, you can specify a corrected file name or you can enter "IGNORE" to continue accessing the remaining file names entered.

=> file caplus
COST IN U.S. DOLLARS

	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	54.35	54.56

FILE 'CAPLUS' ENTERED AT 08:56:21 ON 05 MAY 2004
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FILE COVERS 1907 - 5 May 2004 VOL 140 ISS 19
FILE LAST UPDATED: 4 May 2004 (20040504/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> l2
L3 10 L2

=> l2/prep
10 L2
3143133 PREP/RL
L4 5 L2/PREP
(L2 (L) PREP/RL)

=> d l4 1-5 ti fbib abs

L4 ANSWER 1 OF 5 CAPLUS COPYRIGHT 2004 ACS on STN
TI Preparation of hemoglobin conjugates as oxygen carriers
AN 2002:451965 CAPLUS
DN 136:406826
TI Preparation of hemoglobin conjugates as oxygen carriers
IN Noh, Gwang; Shin, Pil Su
PA Sunbio Inc., S. Korea
SO Repub. Korean Kongkae Taeho Kongbo, No pp. given
CODEN: KRXXA7
DT Patent
LA Korean
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	KR 2000061432	A	20001016	KR 1999-10469	19990326
				KR 1999-10469	19990326

AB A novel SP-PEG-Hb conjugate is provided, which shows safety and effectiveness as an oxygen carrier. A process for the preparation of SP-PEG-Hb comprises: pouring methoxy-PEG and sodium ethoxide to a flask, dissolving completely by boiling, and gaining m-PEG Et propionate; dissolving the m-PEG Et propionate in 1N NaOH, and gaining m-PEG propionic acid; dissolving the m-PEG propionic acid in dichloromethane, adding N-hydroxysuccinimide (NHS) and dicyclohexylcarbodiimide in dichloromethane to give m-PEG succinimidyl propionate; separating red blood cells from mammal blood, and separating Hbs from the red blood cells; dissolving the Hbs in a solution of 0.15 M sodium chloride and 0.01 M Na phosphate (pH 8.0), and adding the SP-PEG (Hb:SP-PEG = 1:20 as equivalent ratio); reacting at room temperature for 1-2 h (pH 8.0), and removing unreacted PEG by ultrafiltration or
diafiltration.

L4 ANSWER 2 OF 5 CAPLUS COPYRIGHT 2004 ACS on STN
TI Synthesis of poly(ester ether)s by the reaction of γ-butyrolactone with diols and their application to polyurethanes
AN 1999:352220 CAPLUS
DN 131:130355
TI Synthesis of poly(ester ether)s by the reaction of γ-butyrolactone

with diols and their application to polyurethanes
AU Miura, Hirohiko; Tajima, Tetsuji; Nagata, Masahide; Royama, Tetsuharu; Saito, Kiyoshi; Hasagawa, Masaki
CS Department of Materials Science and Technology, Faculty of Engineering, Toin University of Yokohama, Kurogane-cho, Aoba-ku, Yokohama, 225-8502, Japan
SO Kobunshi Ronbunshu (1999), 56(5), 291-297
CODEN: KBRBA3; ISSN: 0386-2186
PB Kobunshi Gakkai
DT Journal
LA Japanese
AB Recent patent literature reported that poly(ester ether)s were given by the reaction of γ-butyrolactone (BL) with diols in the presence of acidic catalyst under reflux in xylene. Present research was undertaken to correlate the mol. weight of the resulting poly(ester ether)s with polymerization conditions, such as the amount of activated clay and starting glycol components. As a result, the reaction conditions were established to obtain the high-mol.-weight poly(ester ether)s. Polymerization of BL with ethylene glycol (EG) or diethylene glycol (DEG) was carried out by refluxing in xylene with various amts. of activated clay. The assumed intermediate in the polymerization reaction of BL with EG, 2-hydroxyethyl 4-hydroxybutyrate (I), which was prepared by the reaction of BL with an excess amount of EG, also polymerized under the similar conditions. I was the intermediate in this polymerization reaction because the resulting polymer consisted of a single repeating unit. Polyurethanes were prepared from these poly(ester ether)s and 2,4-TDI and evaluated in terms of their elastic property.

L4 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2004 ACS on STN
TI Synthesis of copolymers composed of 2-methylene-1,3,6-trioxocane and vinyl monomers and their enzymic degradation
AN 1994:9088 CAPLUS
DN 120:9088
TI Synthesis of copolymers composed of 2-methylene-1,3,6-trioxocane and vinyl monomers and their enzymic degradation
AU Hiraguri, Youichi; Tokiwa, Yutaka
CS Natl. Inst. Biosci. Hum. Technol., Tsukuba, 305, Japan
SO Journal of Polymer Science, Part A: Polymer Chemistry (1993), 31(12), 3159-61
CODEN: JPACEC; ISSN: 0887-624X
DT Journal
LA English
AB 2-Methylene-1,3,6-trioxocane (I) underwent a ring-opening reaction during the copolymn. with styrene (II), Me methacrylate (III), and vinyl acetate (IV) and the ester-ether moieties were incorporated into the backbone. I homopolymer (V) and copolymers were hydrolyzed by Rh. arrhizus lipase. The solubilization percentage of V, I-II copolymer, and I-IV copolymer was 67, 7, and 15%, resp. I-III copolymer was not degraded by lipase due the small surface area.

L4 ANSWER 4 OF 5 CAPLUS COPYRIGHT 2004 ACS on STN
TI Mild alkoxycarbonylation of olefins in the presence of palladium complexes
AN 1989:614113 CAPLUS
DN 111:214113
TI Mild alkoxycarbonylation of olefins in the presence of palladium complexes
AU Chepaikin, E. G.; Bezruchenko, A. P.; Benyei, A.; Jo, Ferenc
CS Inst. Strukt. Makrokinet., Chernogolovka, USSR
SO Izvestiya Akademii Nauk SSSR, Seriya Khimicheskaya (1989), (3), 743
CODEN: IASKA6; ISSN: 0002-3353
DT Journal
LA Russian

OS CASREACT 111:214113
AB 1-Decene reacted with CO at 80° in the presence of bis(acetylacetonato)palladium, PPh3, and p-toluenesulfonic acid (I) in BuOH to give Bu undecanoate, Bu 2-methyldecaonate, and Bu 2-ethylnonanoate. With a Pd(PPh3)4-PPh3-I catalyst in HOCH2CH2OH, ethene was converted to 2-ethoxyethyl propionate; when MeOCH2CH2OH was used as the solvent, the product was 2-methoxyethyl propionate.

L4 ANSWER 5 OF 5 CAPLUS COPYRIGHT 2004 ACS on STN
TI Synthesis of monomers that expand on polymerization
AN 1973:492890 CAPLUS
DN 79:92890
TI Synthesis of monomers that expand on polymerization
AU Bailey, William J.
CS Dep. Chem., Univ. Maryland, College Park, MD, USA
SO Journal of Elastoplastics (1973), 5(July), 142-52
CODEN: JELPAP; ISSN: 0022-071X
DT Journal
LA English
AB 1,4,6-Trioxaspiro[4.4]nonane (I) [176-37-4] was polymerized in the presence of BF3.OEt2 at 25.deg. for 24 hr to give a polymer of mol. weight .sim.25,000 in 95% yield with <1% shrinkage during polymerization Other similar monomers, such as 1,5,7,11-tetraoxaspiro[5.5]undecane [24472-02-4], bicyclic ketal lactones, and spiro orthocarbonates gave essentially zero shrinkage or even slight expansion during polymerization The ring opening polymerization mechanism which gave shrinkage is discussed.

=> logoff hold

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	15.84	70.40

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-3.47	-3.47

SESSION WILL BE HELD FOR 60 MINUTES
STN INTERNATIONAL SESSION SUSPENDED AT 08:58:00 ON 05 MAY 2004

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:SSSPTA1623PAZ

PASSWORD:
* * * * * * RECONNECTED TO STN INTERNATIONAL * * * * * *
SESSION RESUMED IN FILE 'CAPLUS' AT 09:14:49 ON 05 MAY 2004
FILE 'CAPLUS' ENTERED AT 09:14:49 ON 05 MAY 2004
COPYRIGHT (C) 2004 AMERICAN CHEMICAL SOCIETY (ACS)

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	15.84	70.40

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION

CA SUBSCRIBER PRICE -3.47 -3.47

=> file reg
COST IN U.S. DOLLARS SINCE FILE ENTRY TOTAL SESSION
FULL ESTIMATED COST 16.71 71.27

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) SINCE FILE ENTRY TOTAL SESSION
CA SUBSCRIBER PRICE -3.47 -3.47

FILE 'REGISTRY' ENTERED AT 09:16:04 ON 05 MAY 2004
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Property values tagged with IC are from the ZIC/VINITI data file
provided by InfoChem.

STRUCTURE FILE UPDATES: 3 MAY 2004 HIGHEST RN 679390-57-9
DICTIONARY FILE UPDATES: 3 MAY 2004 HIGHEST RN 679390-57-9

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 6, 2004

Please note that search-term pricing does apply when
conducting SmartSELECT searches.

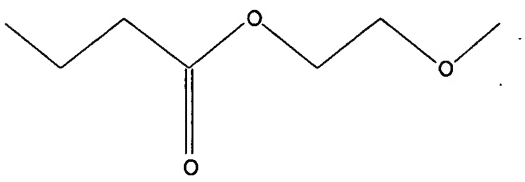
Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more
information enter HELP PROP at an arrow prompt in the file or refer
to the file summary sheet on the web at:
http://www.cas.org/ONLINE/DBSS/registryss.html

=>
Uploading C:\Examination Auxillary files\50337411\50337411 actual simplest cmpd.str

L5 STRUCTURE UPLOADED

=> d l5
L5 HAS NO ANSWERS
L5 STR



Structure attributes must be viewed using STN Express query preparation.

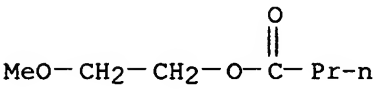
=> search l5 exact full
FULL SEARCH INITIATED 09:16:37 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 409 TO ITERATE

100.0% PROCESSED 409 ITERATIONS 2 ANSWERS
SEARCH TIME: 00.00.01

L6 2 SEA EXA FUL L5

=> d scan

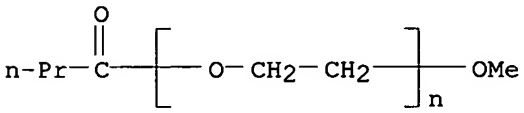
L6 2 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN Butanoic acid, 2-methoxyethyl ester (9CI)
MF C7 H14 O3



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):2

L6 2 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN Poly(oxy-1,2-ethanediyl), α-(1-oxobutyl)-ω-methoxy- (9CI)
MF (C2 H4 O)n C5 H10 O2
CI PMS



ALL ANSWERS HAVE BEEN SCANNED

=> file caplus

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	53.09	124.36

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-3.47

FILE 'CAPLUS' ENTERED AT 09:17:09 ON 05 MAY 2004
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
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FILE COVERS 1907 - 5 May 2004 VOL 140 ISS 19
FILE LAST UPDATED: 4 May 2004 (20040504/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> l6
L7 5 L6

=> d l7 1-5 ti fbib abs

L7 ANSWER 1 OF 5 CAPLUS COPYRIGHT 2004 ACS on STN
TI Chemoselective catalytic hydrogenation of α,β-unsaturated ketones and α,β-unsaturated carboxylic esters
AN 1998:547765 CAPLUS
DN 129:291375
TI Chemoselective catalytic hydrogenation of α,β-unsaturated ketones and α,β-unsaturated carboxylic esters
AU Zhang, Jing-Wen; Zhao, Jian-Zhang; Zhang, Xiao-Long; Jiang, Yu-Lin; Ma, Xiu-Li; Sun, Yun-Xiu; Jiang, Wen-Pu; Li, Yao-Xian; Xu, Zhi-Luo
CS Department of Chemistry, Jilin University, Changchun, 130023, Peop. Rep. China
SO Chemical Research in Chinese Universities (1998), 14(2), 125-130
CODEN: CRCUED; ISSN: 1000-9213
PB Higher Education Press
DT Journal
LA English
AB The effect of catalysts P-2.00-Ni (Nickel boride) and P-2.00-Ni-M (M: Co, Fe, Cu, Sn), prepared by adopting a modified recipe, on the chemoselective hydrogenation of C-C double bonds in α,β-unsatd. ketones, and the activity of catalysts P-1. 80-Ni, P-2. 00-Ni or P-1. 80(2.00)-Ni-M (M: Pd, Co, Cu) in the selective hydrogenation of C-C double bonds in α,β-unsatd. carboxylic esters, were investigated systematically. According to the exptl. results, the selectivities of these catalysts toward the hydrogenation of the C-C double bonds of α,β-unsatd. ketones or α,β-unsatd. carboxylic esters are 96%-100% or 100%, resp.
RE.CNT 12 THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L7 ANSWER 2 OF 5 CAPLUS COPYRIGHT 2004 ACS on STN
TI Preparation of triazine derivatives as herbicides
AN 1996:628531 CAPLUS
DN 125:275917
TI Preparation of triazine derivatives as herbicides
IN Kubota, Mineyuki; Saitou, Masatoshi; Koike, Kazuyoshi; Ogawa, Shin-ichiro
PA Idemitsu Kosan Co., Ltd., Japan
SO PCT Int. Appl., 41 pp.
CODEN: PIXXD2
DT Patent
LA Japanese
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9625404	A1	19960822	WO 1996-JP360	19960219
	W: AL, AM, AU, BB, BG, BR, CA, CN, CZ, EE, FI, GE, HU, IS, KG, KR, LK, LR, LT, LV, MD, MG, MK, MN, MX, NO, NZ, PL, RO, SG, SI, SK, TR, TT, UA, US, UZ, VN, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
				JP 1995-29124 U	19950217
	JP 08217763	A2	19960827	JP 1995-29124	19950217
	JP 3029545	B2	20000404		

CA 2213214	AA	19960822	CA 1996-2213214	19960219
			JP 1995-29124 A	19950217
AU 9646766	A1	19960904	AU 1996-46766	19960219
AU 699392	B2	19981203		
			JP 1995-29124 U	19950217
			WO 1996-JP360 W	19960219
EP 810219	A1	19971203	EP 1996-902473	19960219
EP 810219	B1	20010425		
R: AT, BE, CH, DE, DK, ES, FR, GB, IT, LI, LU, NL				
			JP 1995-29124 A	19950217
			WO 1996-JP360 W	19960219
CN 1181074	A	19980506	CN 1996-193124	19960219
			JP 1995-29124 A	19950217
AT 200779	E	20010515	AT 1996-902473	19960219
			JP 1995-29124 A	19950217
			WO 1996-JP360 W	19960219
ES 2158280	T3	20010901	ES 1996-902473	19960219
			JP 1995-29124 A	19950217
US 6004902	A	19991221	US 1997-875786	19971027
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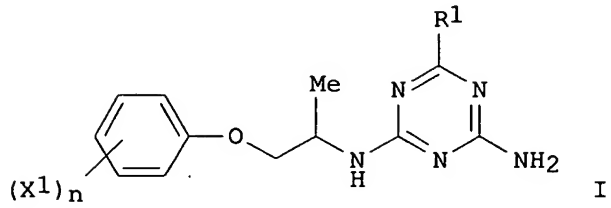
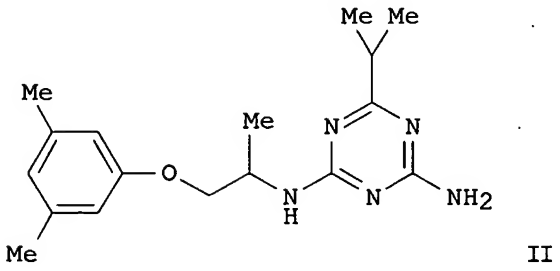
			WO 1996-JP360 W	19960219

OS MARPAT 125:275917

GI



I



II

AB The title compds. I [X1 represents linear or branched C1-4 alkyl or halogeno; n represents an integer of 0 to 4, provided that when n is an integer of 2 or above, then X1 substituents may be the same or different; and R1 represents linear or branched C1-10 alkyl optionally having one to four substituents selected from C1-4 alkoxy and/or hydroxy, provided that when the linear or branched C1-10 alkyl is substituted by two or more C1-4 alkoxy groups and/or hydroxy groups, then these substituents may be either the same or different] are prepared The title triazine derivs. exhibit a very excellent crop/weed selectivity even under severe conditions, for example, excessively humid conditions. The title compound II at 250 g/ha gave complete control of weeds and caused no damage to wheat.

L7 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2004 ACS on STN

TI The chemistry of organoborates. 9. A regiospecific and highly stereoselective construction of trisubstituted αβ-unsaturated

ketones, tetrasubstituted αβ-unsaturated ketones and specifically protected 1,3-diketones from alkynyltrialkylborates

AN 1995:345971 CAPLUS

DN 123:227340

TI The chemistry of organoborates. 9. A regiospecific and highly stereoselective construction of trisubstituted αβ-unsaturated ketones, tetrasubstituted αβ-unsaturated ketones and specifically protected 1,3-diketones from alkynyltrialkylborates

AU Pelter, Andrew; Colclough, Eamon

CS Dep. Chem., Univ. Wales, Swansea, SA2 8PP, UK

SO Tetrahedron (1995), 51(3), 811-28
CODEN: TETRAB; ISSN: 0040-4020

PB Elsevier

DT Journal

LA English

AB Lithium alkynyltrialkylborates react with dioxolanium fluorosulfonates in a highly stereoselective fashion such that the dioxolanium group and the migrating group are on the same side of the new alkene intermediate. Hydrolysis of the intermediate yields Z-trisubstituted αβ-unsatd. ketones in which all three substituents have different origins and can be independently varied. Oxidation of the intermediates gives β-keto acetals, which are regiospecifically protected 1,3-diketones. If the initial intermediates are allowed to stand, then another migration occurs and tetra-substituted αβ-unsatd. ketones result.

L7 ANSWER 4 OF 5 CAPLUS COPYRIGHT 2004 ACS on STN

TI Glycidic esters

AN 1987:215856 CAPLUS

DN 106:215856

TI Glycidic esters

IN Kitamura, Takanori; Matsumoto, Yoichi; Yoshimura, Noriaki

PA Kuraray Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 12 pp.
CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 3

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 61260075	A2	19861118	JP 1985-104735	19850515
	US 4743547	A	19880510	US 1986-849859	19860409
				JP 1985-76126	19850409
				JP 1985-104735	19850515
				JP 1985-123393	19850605
				JP 1985-192441	19850830

PATENT FAMILY INFORMATION:

FAN 1987:31386

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 198397	A2	19861022	EP 1986-104807	19860408
	EP 198397	A3	19881130		
	EP 198397	B1	19930107		
	R: DE, FR, GB, NL				
				JP 1985-76126	19850409
				JP 1985-192441	19850830
	JP 61231998	A2	19861016	JP 1985-76126	19850409
	JP 05027391	B4	19930421		
	JP 62051652	A2	19870306	JP 1985-192441	19850830

FAN 1987:439217

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 61280458	A2	19861211	JP 1985-123393	19850605

US 4743547	A	19880510	US 1986-849859	19860409
			JP 1985-76126	19850409
			JP 1985-104735	19850515
			JP 1985-123393	19850605
			JP 1985-192441	19850830

OS CASREACT 106:215856

AB Glycidic esters are prepared by reacting R1CHO [R1 = (substituted) hydrocarbyl groups] with R22-nCHXnCO2R3 (R2 = H or lower alkyls, R = alkyls, X = Cl or Br, n = 1 or 2) in the presence of K2CO3 or KHCO3 and polyoxyalkylenes containing ≥3 oxyethylenes and removing the water from the reaction. Thus the reaction of C6H5CHO with ClCH2CO2Et in the presence of K2CO3 and polyethylene glycol gave phenylglycidic acid Et ester in selectivity 92% at C6H5CHO conversion 83%.

L7 ANSWER 5 OF 5 CAPLUS COPYRIGHT 2004 ACS on STN

TI Control of apple storage scald with diphenylamine compositions

AN 1970:497614 CAPLUS

DN 73:97614

TI Control of apple storage scald with diphenylamine compositions

IN Kleiman, Morton

SO U.S., 6 pp.
CODEN: USXXAM

DT Patent

LA English

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI US 3526518	A	19700901	US 1967-652700	19670712
			US 1967-652700	19670712

AB The coating emulsion contains 0.05%-0.3% of diphenylamine (I), an ester having a mol. weight of at least 170 and a b.p. of 100-170° and an emulsifier. Twenty apples were sprayed with such an emulsion and stored at 0° and 90% rel. humidity. The test apples showed 5% scald, the controls, 70%.

=> file reg

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	28.20	152.56

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-3.47	-6.94

FILE 'REGISTRY' ENTERED AT 09:29:46 ON 05 MAY 2004

Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 3 MAY 2004 HIGHEST RN 679390-57-9
DICTIONARY FILE UPDATES: 3 MAY 2004 HIGHEST RN 679390-57-9

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 6, 2004

Please note that search-term pricing does apply when conducting SmartSELECT searches.

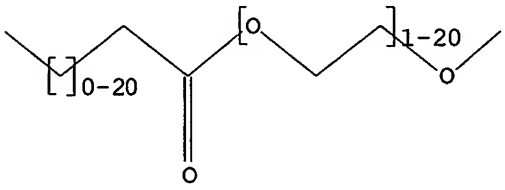
Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more
information enter HELP PROP at an arrow prompt in the file or refer
to the file summary sheet on the web at:
http://www.cas.org/ONLINE/DBSS/registryss.html

=>
Uploading C:\Examination Auxillary files\50337411\50337411 largest genus.str

L8 STRUCTURE UPLOADED

=> d l8
L8 HAS NO ANSWERS
L8 STR



Structure attributes must be viewed using STN Express query preparation.

=> search l8 sss sam
SAMPLE SEARCH INITIATED 09:30:22 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 15542 TO ITERATE

6.4% PROCESSED 1000 ITERATIONS 50 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

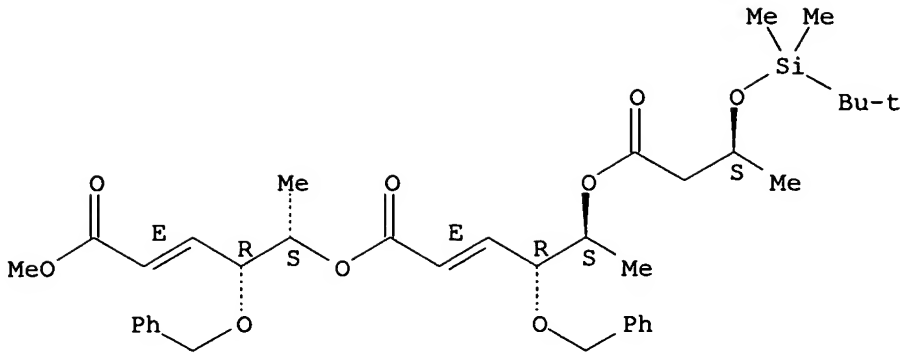
FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 303378 TO 318302
PROJECTED ANSWERS: 82472 TO 90354

L9 50 SEA SSS SAM L8

=> d scan

L9 50 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN 4,8,14-Trioxa-3-silanonadeca-11,17-dien-19-oic acid, 2,2,3,3,5,9,15-heptamethyl-7,13-dioxo-10,16-bis(phenylmethoxy)-, methyl ester, (5S,9S,10R,11E,15S,16R,17E)- (9CI)
MF C37 H52 O9 Si

Absolute stereochemistry. Rotation (-).
Double bond geometry as shown.



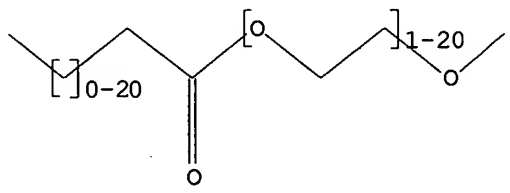
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):0

=>
Uploading C:\Examination Auxillary files\50337411\50337411 largest genus fixed hydrogens.str

L10 STRUCTURE UPLOADED

=> d l10
L10 HAS NO ANSWERS
L10 STR



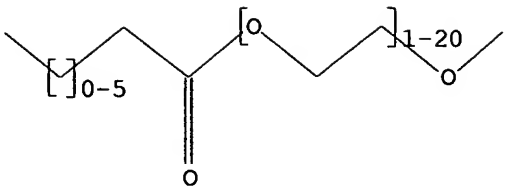
Structure attributes must be viewed using STN Express query preparation.

=> search l10 sss sam
STRUCTURE TOO LARGE - SEARCH ENDED
A structure in your query is too large. You may delete attributes or atoms to reduce the size of the structure and try again.

=>
Uploading C:\Examination Auxillary files\50337411\50337411 largest genus fixed hydrogens 2.str

L11 STRUCTURE UPLOADED

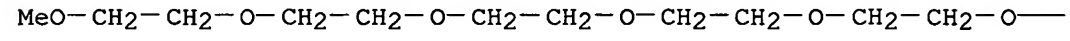
=> d l11
L11 HAS NO ANSWERS
L11 STR



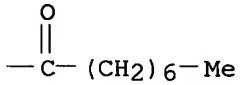
Structure attributes must be viewed using STN Express query preparation.

```
=> search l11 sss sam
SAMPLE SEARCH INITIATED 09:34:10 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -  15542 TO ITERATE

  6.4% PROCESSED    1000 ITERATIONS                                0 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:  ONLINE  **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED ITERATIONS:       303378 TO   318302
PROJECTED ANSWERS:               0 TO        0

L12           0 SEA SSS SAM L11

=> search l11 sss full
FULL SEARCH INITIATED 09:34:23 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 314018 TO ITERATE

100.0% PROCESSED  314018 ITERATIONS                             17 ANSWERS
SEARCH TIME: 00.00.04

L13          17 SEA SSS FUL L11

=> d scan

L13  17 ANSWERS   REGISTRY  COPYRIGHT 2004 ACS on STN
IN   Octanoic acid, 3,6,9,12,15-pentaoxahexadec-1-yl ester (9CI)
MF   C19 H38 O7
```

PAGE 1-A



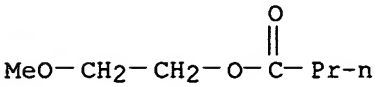
PAGE 1-B



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

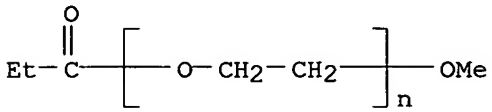
HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):17

L13 17 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN Butanoic acid, 2-methoxyethyl ester (9CI)
MF C7 H14 O3

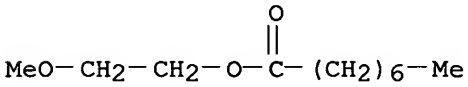


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L13 17 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN Poly(oxy-1,2-ethanediyl), α-(1-oxopropyl)-ω-methoxy- (9CI)
MF (C2 H4 O)n C4 H8 O2
CI PMS

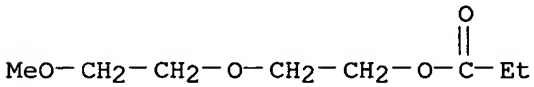


L13 17 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN Octanoic acid, 2-methoxyethyl ester (9CI)
MF C11 H22 O3



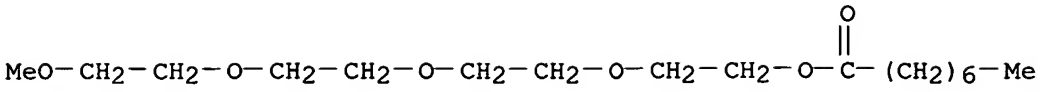
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L13 17 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN Ethanol, 2-(2-methoxyethoxy)-, propanoate (9CI)
MF C8 H16 O4



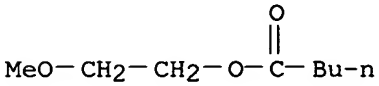
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L13 17 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN Octanoic acid, 3,6,9,12-tetraoxatridec-1-yl ester (9CI)
MF C17 H34 O6



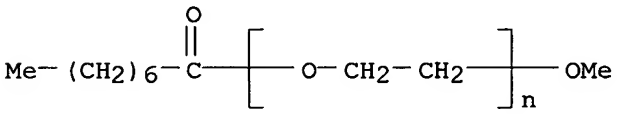
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L13 17 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN Pentanoic acid, 2-methoxyethyl ester (9CI)
MF C8 H16 O3

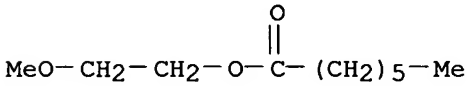


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L13 17 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN Poly(oxy-1,2-ethanediyl), α-(1-oxooctyl)-ω-methoxy- (9CI)
MF (C2 H4 O)n C9 H18 O2
CI PMS

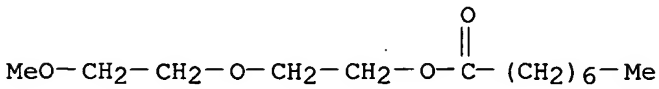


L13 17 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN Heptanoic acid, 2-methoxyethyl ester (9CI)
MF C10 H20 O3



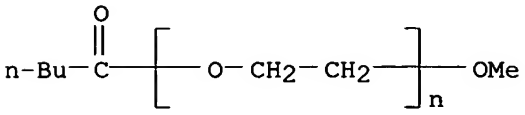
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L13 17 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN Octanoic acid, 2-(2-methoxyethoxy)ethyl ester (9CI)
MF C13 H26 O4

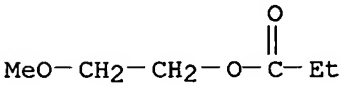


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L13 17 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN Poly(oxy-1,2-ethanediyl), α-(1-oxopentyl)-ω-methoxy- (9CI)
MF (C2 H4 O)n C6 H12 O2
CI PMS

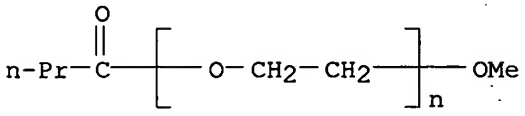


L13 17 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN Ethanol, 2-methoxy-, propanoate (9CI)
MF C6 H12 O3

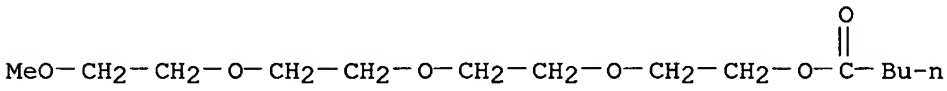


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L13 17 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN Poly(oxy-1,2-ethanediyl), α-(1-oxobutyl)-ω-methoxy- (9CI)
MF (C2 H4 O)n C5 H10 O2
CI PMS

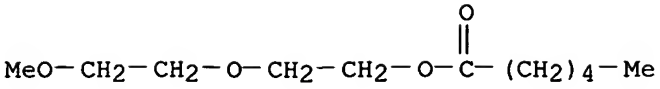


L13 17 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN Pentanoic acid, 3,6,9,12-tetraoxatridec-1-yl ester (9CI)
MF C14 H28 O6



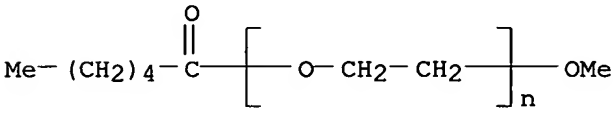
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L13 17 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN Hexanoic acid, 2-(2-methoxyethoxy)ethyl ester (9CI)
MF C11 H22 O4

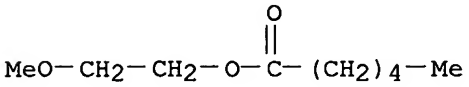


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L13 17 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN Poly(oxy-1,2-ethanediyl), α-(1-oxohexyl)-ω-methoxy- (9CI)
MF (C2 H4 O)n C7 H14 O2
CI PMS



L13 17 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN Hexanoic acid, 2-methoxyethyl ester (8CI, 9CI)
MF C9 H18 O3



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

ALL ANSWERS HAVE BEEN SCANNED

=> file caplus

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	161.30	313.86

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-6.94

FILE 'CAPLUS' ENTERED AT 09:38:30 ON 05 MAY 2004
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

strictly prohibited.

FILE COVERS 1907 - 5 May 2004 VOL 140 ISS 19
FILE LAST UPDATED: 4 May 2004 (20040504/ED)

  This file contains CAS Registry Numbers for easy and accurate
  substance identification.

=> l13/prep
           32 L13
      3143133 PREP/RL
L14   12 L13/PREP
                (L13 (L) PREP/RL)

=> file reg
COST IN U.S. DOLLARS   SINCE FILE   TOTAL
                                                         ENTRY   SESSION
FULL ESTIMATED COST   3.13   316.99

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)   SINCE FILE   TOTAL
                                                         ENTRY   SESSION
CA SUBSCRIBER PRICE   0.00   -6.94

FILE 'REGISTRY' ENTERED AT 09:40:11 ON 05 MAY 2004
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Property values tagged with IC are from the ZIC/VINITI data file
provided by InfoChem.

STRUCTURE FILE UPDATES: 3 MAY 2004 HIGHEST RN 679390-57-9
DICTIONARY FILE UPDATES: 3 MAY 2004 HIGHEST RN 679390-57-9

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 6, 2004

  Please note that search-term pricing does apply when
  conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more
information enter HELP PROP at an arrow prompt in the file or refer
to the file summary sheet on the web at:
http://www.cas.org/ONLINE/DBSS/registryss.html

=>
Uploading C:\Examination Auxillary files\50337411\50337411 narrow sm.str

L15   STRUCTURE UPLOADED

=> file caplus
COST IN U.S. DOLLARS   SINCE FILE   TOTAL
                                                         ENTRY   SESSION
FULL ESTIMATED COST   0.42   317.41

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)   SINCE FILE   TOTAL
                                                         ENTRY   SESSION
CA SUBSCRIBER PRICE   0.00   -6.94

FILE 'CAPLUS' ENTERED AT 09:40:36 ON 05 MAY 2004
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.

PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

FILE COVERS 1907 - 5 May 2004 VOL 140 ISS 19
FILE LAST UPDATED: 4 May 2004 (20040504/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

```
=> methyl adj ester
        893242 METHYL
           625 METHYLS
        893623 METHYL
                  (METHYL OR METHYLS)
        854527 ME
          9643 MES
        860365 ME
                  (ME OR MES)
       1449417 METHYL
                  (METHYL OR ME)
           211 ADJ
        544342 ESTER
        406491 ESTERS
        759800 ESTER
                  (ESTER OR ESTERS)
L16           0 METHYL ADJ ESTER
                  (METHYL(W)ADJ(W)ESTER)

=> methyl ester
        893242 METHYL
           625 METHYLS
        893623 METHYL
                  (METHYL OR METHYLS)
        854527 ME
          9643 MES
        860365 ME
                  (ME OR MES)
       1449417 METHYL
                  (METHYL OR ME)
        544342 ESTER
        406491 ESTERS
        759800 ESTER
                  (ESTER OR ESTERS)
L17     117383 METHYL ESTER
                  (METHYL(W)ESTER)

=> l14 and l17
L18           1 L14 AND L17

=> d l18 ti fbib abs
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L18 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2004 ACS on STN
TI **Methyl ester** ethoxylates
AN 1997:511796 CAPLUS
DN 127:192184
TI **Methyl ester** ethoxylates
AU Cox, Michael F.; Weerasooriya, Upali
CS CONDEA Vista Co., Austin, TX, USA
SO Journal of the American Oil Chemists' Society (1997), 74(7), 847-859
CODEN: JAOCA7; ISSN: 0003-021X
PB AOCS Press
DT Journal
LA English
AB Conventional ethoxylation of fatty **Me esters**, or other fatty-fatty esters or diesters, produces poor yields of the desired ethoxylated ester. A proprietary ethoxylation catalyst, currently in use to produce "peaked" or "narrow-range" alc. ethoxylates, has been found to successfully insert ethylene oxide into the ester linkage of fatty esters. The mechanism for this insertion likely involves an ethoxylation-transesterification step in the ethoxylation process. Phys., performance, and environmental/human safety properties were evaluated. Results, in general, show that **Me ester** ethoxylates behave similarly to alc. ethoxylates with the exception of having a lower foam profile and being less irritating.
RE.CNT 15 THERE ARE 15 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> logoff hold

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	13.81	331.22
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-0.69	-7.63

SESSION WILL BE HELD FOR 60 MINUTES
STN INTERNATIONAL SESSION SUSPENDED AT 09:43:49 ON 05 MAY 2004

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:SSSPTA1623PAZ

PASSWORD:
* * * * * * RECONNECTED TO STN INTERNATIONAL * * * * * *
SESSION RESUMED IN FILE 'CAPLUS' AT 10:04:36 ON 05 MAY 2004
FILE 'CAPLUS' ENTERED AT 10:04:36 ON 05 MAY 2004
COPYRIGHT (C) 2004 AMERICAN CHEMICAL SOCIETY (ACS)

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	13.81	331.22
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-0.69	-7.63

=> d his

```
     (FILE 'HOME' ENTERED AT 08:53:10 ON 05 MAY 2004)

     FILE 'REGISTRY' ENTERED AT 08:53:23 ON 05 MAY 2004
L1             STRUCTURE UPLOADED
L2           3 SEARCH L1 EXACT FULL

     FILE 'CAPLUS' ENTERED AT 08:56:21 ON 05 MAY 2004
L3          10 L2
L4           5 L2/PREP

     FILE 'REGISTRY' ENTERED AT 09:16:04 ON 05 MAY 2004
L5             STRUCTURE UPLOADED
L6           2 SEARCH L5 EXACT FULL

     FILE 'CAPLUS' ENTERED AT 09:17:09 ON 05 MAY 2004
L7           5 L6

     FILE 'REGISTRY' ENTERED AT 09:29:46 ON 05 MAY 2004
L8             STRUCTURE UPLOADED
L9          50 SEARCH L8 SSS SAM
L10            STRUCTURE UPLOADED
L11            STRUCTURE UPLOADED
L12          0 SEARCH L11 SSS SAM
L13         17 SEARCH L11 SSS FULL

     FILE 'CAPLUS' ENTERED AT 09:38:30 ON 05 MAY 2004
L14         12 L13/PREP

     FILE 'REGISTRY' ENTERED AT 09:40:11 ON 05 MAY 2004
L15            STRUCTURE UPLOADED

     FILE 'CAPLUS' ENTERED AT 09:40:36 ON 05 MAY 2004
L16          0 METHYL ADJ ESTER
L17     117383 METHYL ESTER
L18          1 L14 AND L17

=> file reg
COST IN U.S. DOLLARS                        SINCE FILE      TOTAL
                                               ENTRY    SESSION
FULL ESTIMATED COST                            14.25     331.66

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)  SINCE FILE      TOTAL
                                               ENTRY    SESSION
CA SUBSCRIBER PRICE                            -0.69      -7.63

FILE 'REGISTRY' ENTERED AT 10:04:58 ON 05 MAY 2004
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
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Property values tagged with IC are from the ZIC/VINITI data file
provided by InfoChem.

STRUCTURE FILE UPDATES:     3 MAY 2004  HIGHEST RN 679390-57-9
DICTIONARY FILE UPDATES:    3 MAY 2004  HIGHEST RN 679390-57-9

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 6, 2004

  Please note that search-term pricing does apply when
  conducting SmartSELECT searches.

Crossover limits have been increased.  See HELP CROSSOVER for details.
```

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:
http://www.cas.org/ONLINE/DBSS/registryss.html

=> search l15 sss full
FULL SEARCH INITIATED 10:05:17 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - >1,000,000 TO ITERATE

< 17.1% PROCESSED 400000 ITERATIONS 23 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.06

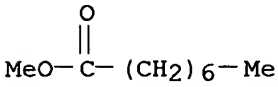
FULL FILE PROJECTIONS: ONLINE **INCOMPLETE**
BATCH **INCOMPLETE**
PROJECTED ITERATIONS: EXCEEDS 1000000
PROJECTED ANSWERS: EXCEEDS 100

L19 23 SEA SSS FUL L15

=> d scan

L19 23 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN Octynoic acid, methyl ester (9CI)
MF C9 H14 O2
CI IDS

CM 1



HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):end

=> file caplus

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	155.84	487.50

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-7.63

FILE 'CAPLUS' ENTERED AT 10:06:02 ON 05 MAY 2004
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

FILE COVERS 1907 - 5 May 2004 VOL 140 ISS 19
FILE LAST UPDATED: 4 May 2004 (20040504/ED)

  This file contains CAS Registry Numbers for easy and accurate
  substance identification.

=> l19/rct
            16 L19
       2618877 RCT/RL
L20   2 L19/RCT
                 (L19 (L) RCT/RL)

=> l14 and l20
L21   0 L14 AND L20

=> l19
L22   16 L19

=> l14 and l21
L23   0 L14 AND L21

=> logoff hold

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	3.13	490.63

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-7.63

 SESSION WILL BE HELD FOR 60 MINUTES
STN INTERNATIONAL SESSION SUSPENDED AT 10:07:36 ON 05 MAY 2004

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:SSSPTA1623PAZ

PASSWORD:
 * * * * * * RECONNECTED TO STN INTERNATIONAL * * * * * *
SESSION RESUMED IN FILE 'CAPLUS' AT 10:43:52 ON 05 MAY 2004
FILE 'CAPLUS' ENTERED AT 10:43:52 ON 05 MAY 2004
COPYRIGHT (C) 2004 AMERICAN CHEMICAL SOCIETY (ACS)

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	3.13	490.63

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-7.63

=> d his

     (FILE 'HOME' ENTERED AT 08:53:10 ON 05 MAY 2004)

     FILE 'REGISTRY' ENTERED AT 08:53:23 ON 05 MAY 2004

```
L1              STRUCTURE UPLOADED
L2            3 SEARCH L1 EXACT FULL

     FILE 'CAPLUS' ENTERED AT 08:56:21 ON 05 MAY 2004
L3           10 L2
L4            5 L2/PREP

     FILE 'REGISTRY' ENTERED AT 09:16:04 ON 05 MAY 2004
L5              STRUCTURE UPLOADED
L6            2 SEARCH L5 EXACT FULL

     FILE 'CAPLUS' ENTERED AT 09:17:09 ON 05 MAY 2004
L7            5 L6

     FILE 'REGISTRY' ENTERED AT 09:29:46 ON 05 MAY 2004
L8              STRUCTURE UPLOADED
L9           50 SEARCH L8 SSS SAM
L10             STRUCTURE UPLOADED
L11             STRUCTURE UPLOADED
L12           0 SEARCH L11 SSS SAM
L13          17 SEARCH L11 SSS FULL

     FILE 'CAPLUS' ENTERED AT 09:38:30 ON 05 MAY 2004
L14          12 L13/PREP

     FILE 'REGISTRY' ENTERED AT 09:40:11 ON 05 MAY 2004
L15             STRUCTURE UPLOADED

     FILE 'CAPLUS' ENTERED AT 09:40:36 ON 05 MAY 2004
L16           0 METHYL ADJ ESTER
L17      117383 METHYL ESTER
L18           1 L14 AND L17

     FILE 'REGISTRY' ENTERED AT 10:04:58 ON 05 MAY 2004
L19          23 SEARCH L15 SSS FULL

     FILE 'CAPLUS' ENTERED AT 10:06:02 ON 05 MAY 2004
L20           2 L19/RCT
L21           0 L14 AND L20
L22          16 L19
L23           0 L14 AND L21

=> logoff hold
COST IN U.S. DOLLARS                          SINCE FILE      TOTAL
                                                 ENTRY    SESSION
FULL ESTIMATED COST                               3.57     491.07

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)    SINCE FILE      TOTAL
                                                 ENTRY    SESSION
CA SUBSCRIBER PRICE                               0.00      -7.63

 SESSION WILL BE HELD FOR 60 MINUTES
STN INTERNATIONAL SESSION SUSPENDED AT 10:44:33 ON 05 MAY 2004
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